

PROJECT facts

U.S. DEPARTMENT OF ENERGY
OFFICE OF FOSSIL ENERGY
NATIONAL ENERGY TECHNOLOGY LABORATORY

Sequestration

04/2004



SOUTHEAST REGIONAL CARBON SEQUESTRATION PARTNERSHIP (SERCSP)

Background

The U.S. Department of Energy has selected the seven partnerships of state agencies, universities, and private companies that will form the core of a nationwide network that will help determine the best approaches for capturing and permanently storing gases that can contribute to global climate change. All together, the partnerships include more than 156 organizations, spanning 40 states, three Indian nations, and two Canadian provinces.

The seven partnerships will develop the framework needed to validate and potentially deploy carbon sequestration technologies. They will evaluate and determine which of the numerous sequestration approaches that have emerged in the last few years are best suited for their specific regions of the country. They will also begin studying possible regulations and infrastructure requirements that would be needed should climate science indicate that sequestration be deployed on a wide scale in the future.

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Description

The Southeast Regional Carbon Sequestration Partnership SERCSP, led by the Southern States Energy Board (SSEB), Norcross, GA, represents the eleven southeastern states (Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Texas and Virginia). SERCSP will accomplish its objectives by defining similarities in the nine state region; characterizing the region relative to sources, sinks, transport, sequestration options, and existing and future infrastructure requirements; identifying and addressing issues for technology deployment; developing public involvement and education mechanisms; identifying the most promising capture, sequestration, and transport options; and developing action plans for implementation and technology validation.



Southeast Regional Carbon Sequestration Partnership



CUSTOMER SERVICE

1-800-553-7681

WEBSITE

www.netl.doe.gov

PARTNERS

Southern States Energy Board (SSEB)

Electric Power Research Institute (EPRI)

Mississippi State University (MSU) Diagnostic Instrumentation Analysis Laboratory (DIAL)

Massachusetts Institute of Technology (MIT)

Tennessee Valley Authority (TVA) Public Power Institute (PPI)

Winrock International

Augusta Systems Inc.

Applied Geo Technologies (AGT)

Geologic Survey of Alabama (GSA)

Susan Rice and Associates

Advanced Resources International

The Phillips Group

RMS Research

COST

Total Cost:

\$ 1,999,885

DOE/Non-DOE Share:

\$1,599,908 / \$ 399,977

Duration of Contract:

24 Months

SERCSP will define the geographic boundary of the study. CO₂ sources, sinks, and transport requirements will be described and entered into a GIS system. An assessment of public involvement and educational needs will be conducted, and an outreach plan will be developed so that stakeholders can help identify and implement regional CO₂ sequestration measures. Safety, regulatory, and permitting requirements within the region will be assessed in consultation with regulatory agencies, state public utility commissions, and oil and gas commissions. Assessment of ecosystem impacts will be completed, and an action plan to address impact issues will be developed. Monitoring and verification requirements will be established, along with protocols for geologic and terrestrial sequestration, and measurement of stack emissions of CO₂.

Primary Project Goal

The primary project goal is to promote the development of the framework and infrastructure necessary for the validation and deployment of carbon sequestration technologies, and to evaluate options and potential opportunities for regional CO₂ sequestration.

Objectives

- Define similarities among the nine states in the region.
- Characterize the region relative to sources, sinks, transport, sequestration options, and existing and future infrastructure requirements.
- Identify and address issues involved with technology deployment.
- Develop public involvement and education mechanisms.
- Identify the most promising capture, sequestration, and transport options.
- Develop action plans for implementation and technology validation.

Benefits

SECSR's study for this nine state region will result in the following specific programmatic benefits:

- Support the United States Department of Energy's (DOE) Carbon Sequestration Program by promoting the development of the framework and infrastructure necessary for the validation and deployment of carbon sequestration technologies.
- Support the President's Global Climate Change Initiative goal of reducing greenhouse gas intensity by 18 percent by 2012.
- Evaluate options and potential opportunities for regional CO₂ sequestration.

